

Patent Abstracts of Japan

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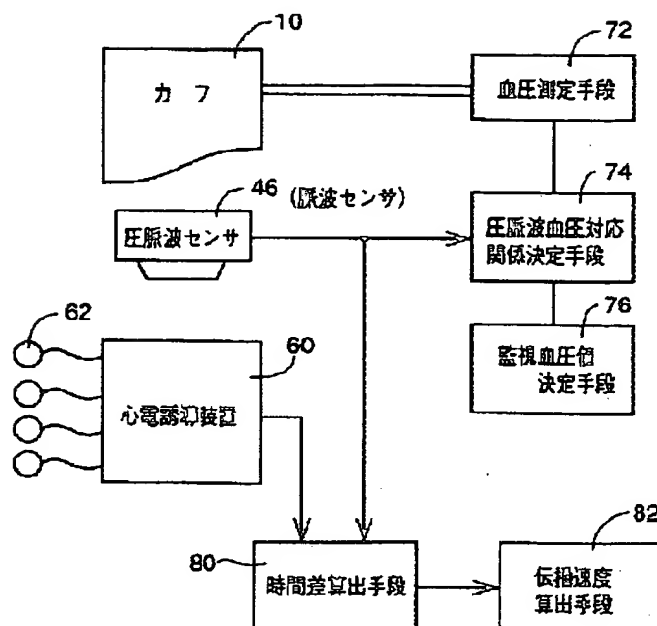
APPLICATION DATE : 27-03-95  
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TITLE : MEASURING DEVICE FOR PULSE WAVE PROPAGATION VELOCITY



ABSTRACT : PURPOSE: To provide a measuring device for pulse wave propagation velocity by which pulse wave propagation velocity can be obtained with good accuracy.

CONSTITUTION: Transmission velocity VM of a pulse wave in artery is calculated based on a time differential TDRP in a propagation velocity calculating means 82, when the time differential TDRP from a specified site at which an electrocardiographic induction waveform detected by an electrocardiographic induction device 60 is generated periodically to the specified site at which the pulse wave detected by a pressure pulse wave sensor 46 is generated periodically is calculated by a time differential calculating means 80. This propagation velocity VM is calculated based on the distance including propagation in the aorta connected to a heart, therefore the pulse wave propagation velocity is obtained with high accuracy in comparison with that in the conventional case which is calculated based on a little time differential, because the propagation distance is long and the propagation time, in other words the time differential TDRP is prolonged due to low pulse wave propagation velocity in artery as a diameter of the aorta is large.

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